

METHOD OF AND APPARATUS FOR DIRECTIONAL DRILLING

ABSTRACT OF THE DISCLOSURE

5 A method of and system for directional drilling
reduces the friction between the drill string and the
well bore. A downhole drilling motor is connected to a
drilling rig at the surface by a drill string. The
drilling motor is oriented at a selected tool face
angle. The drill string is rotated at the surface in a
10 first direction until a first torque magnitude is
reached without changing the tool face angle. The drill
string is then rotated in the opposite direction until a
second torque magnitude is reached, again without
changing the tool face angle. The drill string is
15 rotated back and forth between the first and second
torque magnitudes. Pressure inside the drill string is
measured, and the first and second torque magnitudes are
adjusted in response to changes in the pressure.